Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 664426			FOR FURTHER ACTION SO		See Form PCT/IPEA/416				
International application No.			national filing date	tional filing date (day/month/year) Priority date (day/month/year)					
PCT/JP2004/006596			1.05.2004		13.05.2003				
International Patent Classification (IPC) or national classification and IPC									
Applicant									
MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.									
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 									
2. This	REPORT consists	of a total of 5		sheets, including	this cover sheet.				
3. This	report is also accor	npanied by ANNEX	ES, comprising:						
a.	(sent to the	applicant and to the	International Bure	au) a total of 5	sheets, as follows:				
				***************************************	mended and are the basis for this report and/or				
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
	Box.								
b.	(sent to the	International Burea	u only) a total of (ir	ndicate type and number	of electronic carrier(s))				
	, containing a sequence listing and/or tables								
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
4. This	report contains ind	ications relating to t	he following items	:					
	Box No. I	Basis of the report	t						
	Βοχ Νο. Π	Priority							
	Box No. III	Non-establishmen	t of opinion with re	egard to novelty, inventi	ve step and industrial applicability				
	Box No. IV	Lack of unity of it	ovention						
	Box No. V		nt under Article 35 anations supporting		ty, inventive step or industrial applicability;				
	Box No. VI	Certain document	s cited						
	Box No. VII Certain defects in the international application								
	Box No. VIII	Certain observation	ons on the internation	onal application					
Date of submission of the demand			ĺD	Date of completion of thi	s report				
				-					
Name and mailing address of the IPEA/JP			A	uthorized officer					
Facsimile No.			т	elephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/006596

Box	No. I	Basis of the report						
1.		regard to the language, this report is based on the internation ated under this item.	nal application in the language in which it wa	s filed, unless otherwise				
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b))							
		publication of the international application (Rule 12.4)						
		international preliminary examination (Rule 55.2 and/	or 55.3)					
2.	With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):							
	\boxtimes	the international application as originally filed/furnished the description:						
			a	s originally filed/furnished				
		pages* 5,6,6/1		s originally modifications				
		pages*						
	\boxtimes	the claims:						
		nos. 5,7-19	а	s originally filed/furnished				
			as amended (together with any s					
		nos* 1,3,4,6						
		nos.*	received by this Authority on					
	\boxtimes	the drawings:						
		shects fig. 1-38	a	s originally filed/furnished				
		sheets*	received by this Authority on	W. 1000				
		sheets*	received by this Authority on					
		a sequence listing and/or any related table(s) - see Supplement	ental Box Relating to Sequence Listing.					
3.	\boxtimes	The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos. 2						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil						
		the description, pages		<u> </u>				
		the claims, nos.	the claims, nos.					
		the sequence listing (specify):	the sequence listing (specify):					
	any table(s) related to sequence listing (specify):							
*	* If item 4 applies, some or all of those sheets may be marked "superseded."							

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Box No. IV Lack of unity of invention						
1. In response to the invitation to restrict or pay additional fees the applicant has:						
restricted the claims.						
paid additional fees.						
paid additional fees under protest.						
neither restricted the claims nor paid additional fees.						
This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.						
3. This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is:						
complied with.						
not complied with for the following reasons:						
The inventions that are set forth in claims 1						
and 3 to 13 relate to inspecting the attitudes of the						
parts by means of independent sensors that are						
associated with each of the respective nozzle rows.						
The inventions that are set forth in claims 14						
to 19 relate to detecting the heights of the parts by						
means of a single sensor.						
4. Consequently, this report has been established in respect of the following parts of the international application:						
all parts.						
the parts relating to claims Nos.						

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Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
1.	Statement					
	Novelty (N)	Claims	1,	3-19	YES	
		Claims			NO	
	Inventive step (IS)	Claims			YES	
		Claims	1,	3-19	NO	
	Industrial applicability (IA)	Claims	1,	3-19	YES	
		Claims			NO	

- 2. Citations and explanations (Rule 70.7)
 - Document 1: JP 2003-60397 A (Matsushita Electric Ind. Co., Ltd.), 28 February 2003 & US 2003/0029033 A1 & WO 2003/015491 A1
 - Document 2: JP 2003/60395 A (Matsushita Electric Industrial Co., Ltd.), 28 February 2003 & US 2003/0133603 A1
 - Document 3: JP 11-68395 A (Yamaha Motor Co., Ltd.), 09
 March 1999 (Family: none)
 - Document 4: JP 2003-124700 A (Nihon Densan Koparu Kabushiki Kaisha), 25 April 2003 (Family: none)
 - Document 5: JP 6-216584 A (Juki Corp.), 05 August 1994 (Family: none)
 - Document 6: JP 2000-156600 A (Matsushita Electric Ind. Co., Ltd.), 06 June 2000 (Family: none)

The inventions set forth in claims 1, 3 and 6 do not involve an inventive step in the light of document 1 and document 2 cited in the international search report. Document 2 discloses the feature of arranging the nozzles upon the head part in ten parallel columns, each of which comprises a single nozzle, and then further providing a sensor for each of the ten columns of nozzles. Therefore,

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

it would have been easy for a person skilled in the art to conceive of providing a sensor to each of the columns, as disclosed in document 2, in the device that is disclosed in document 1.

The inventions set forth in claims 4, 5 and 7 do not involve an inventive step in the light of document 1, document 2 and document 3 cited in the international search report. Document 3 discloses the feature of disposing the sensors at locations that are offset from one another.

The inventions set forth in claims 8 to 13 do not involve an inventive step in the light of document 1, document 2 and document 4 cited in the international search report. Document 4 discloses an imaging device that comprises two cameras and a half mirror.

The inventions set forth in claims 14 to 19 do not involve an inventive step in the light of document 1, document 5 cited in the international search report and newly cited document 6. Document 5 discloses sensors that are disposed in a manner such that they are inclined towards the direction of movement, and document 6 discloses the feature of detecting the heights of the parts.